

FIG. 1

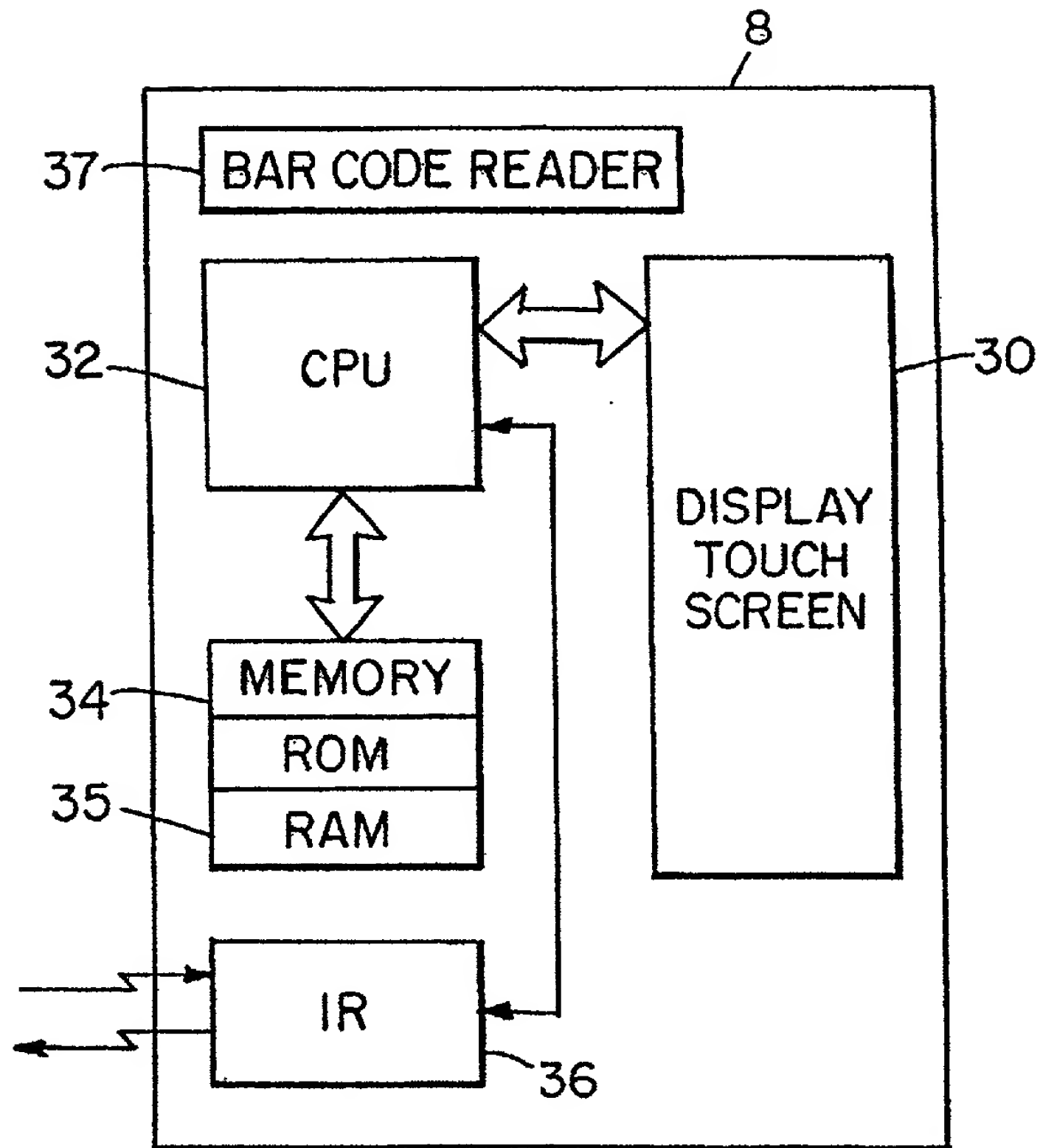


FIG. 2

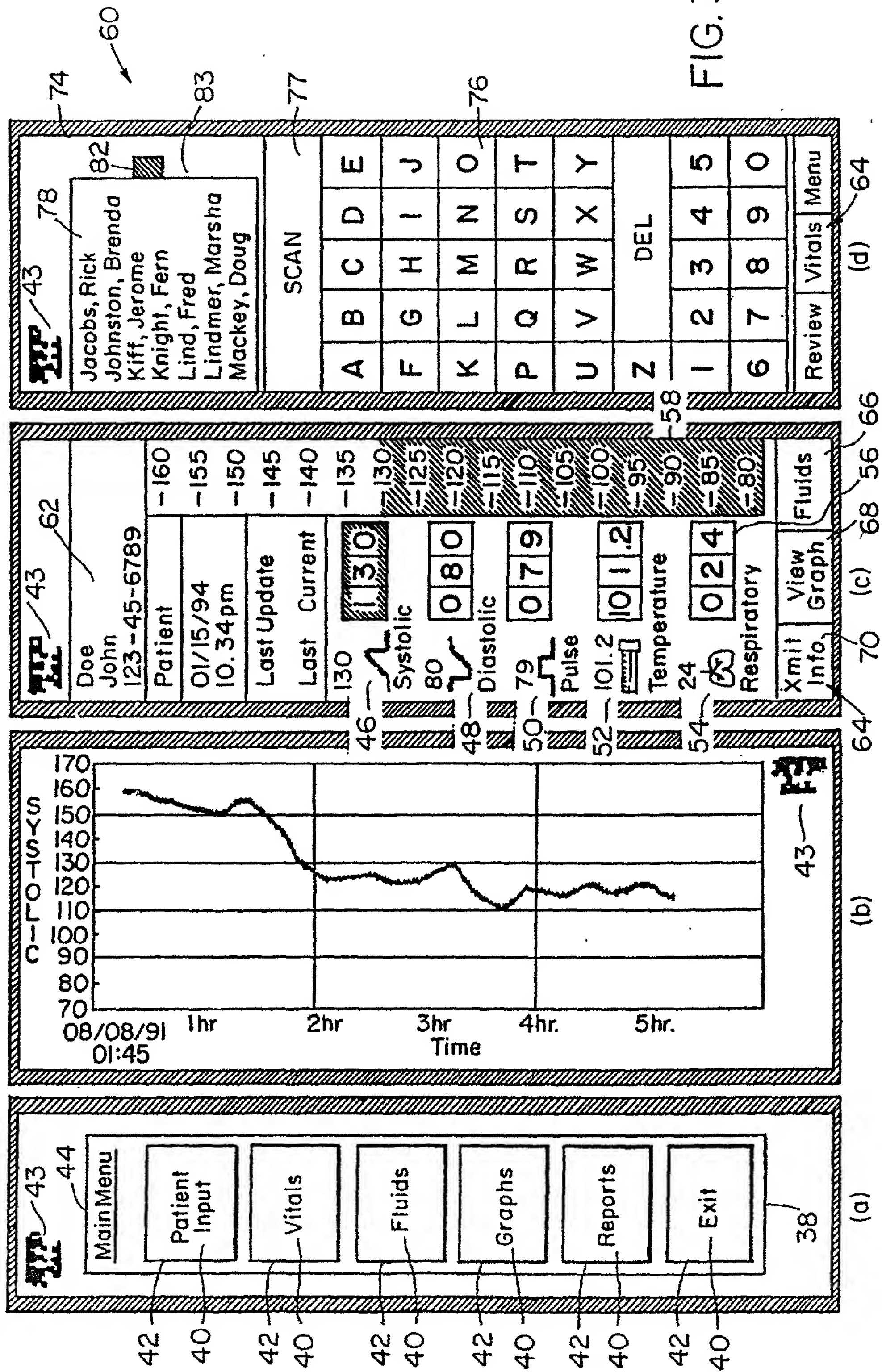


FIG. 3

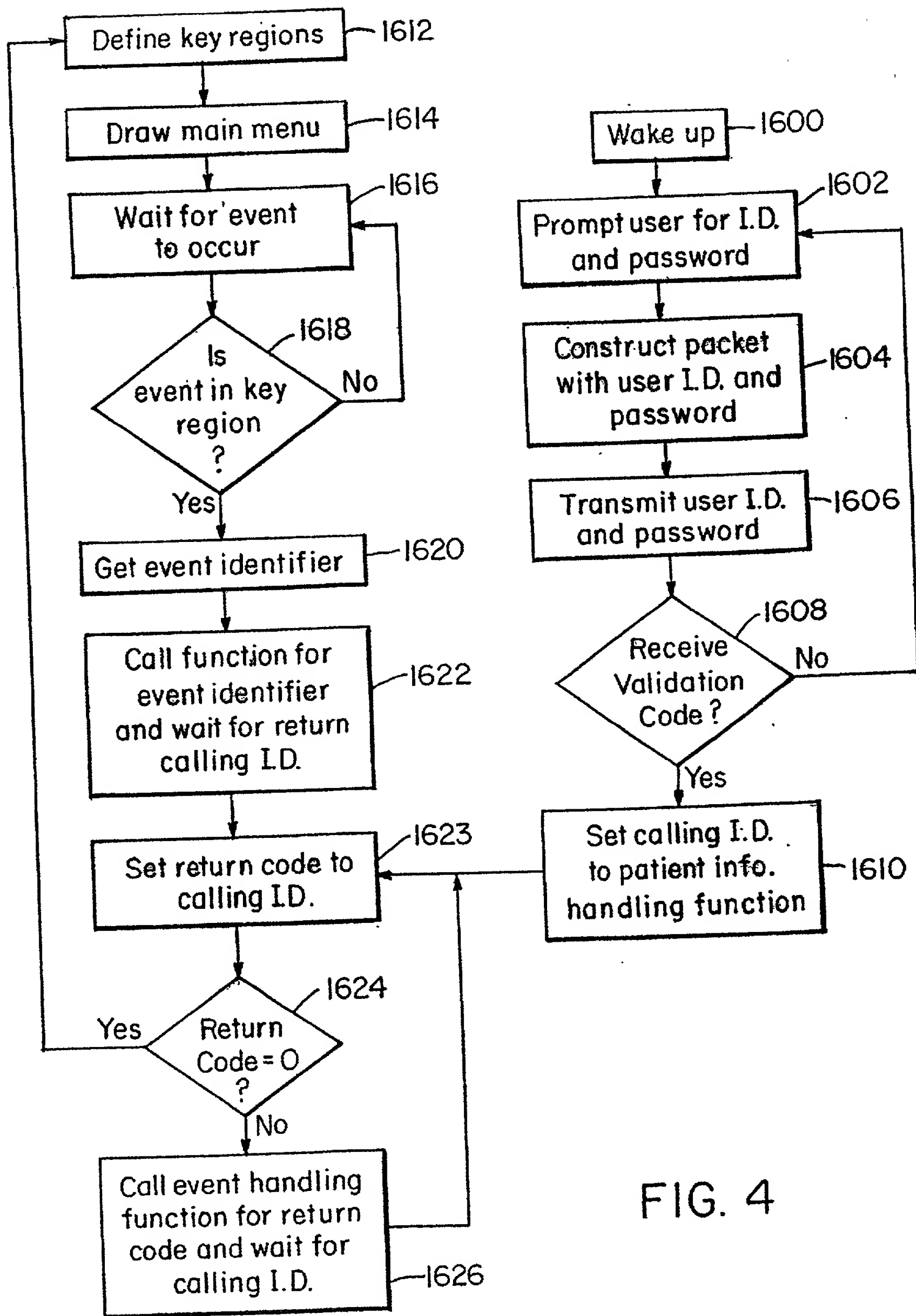


FIG. 4

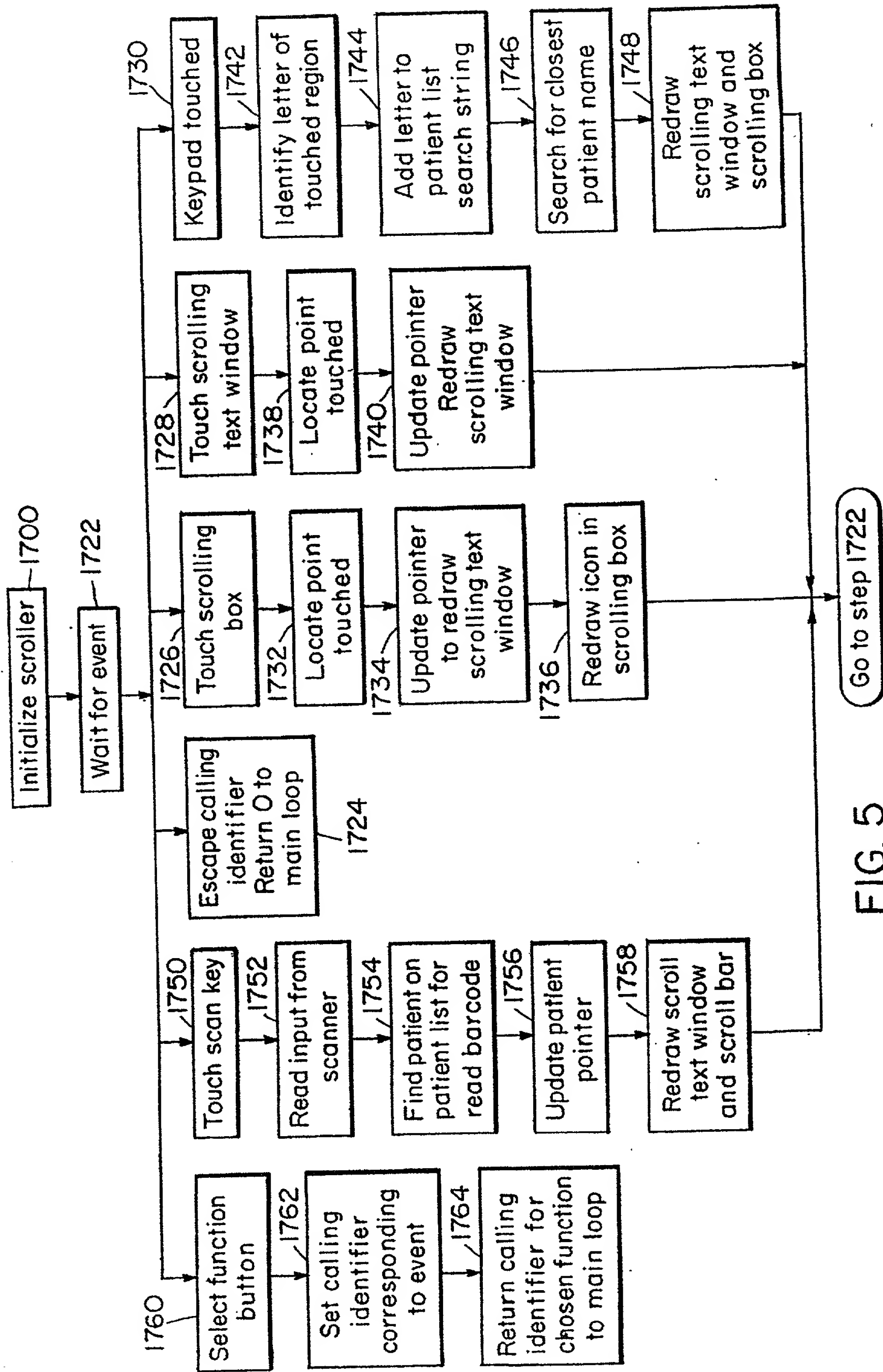


FIG. 5

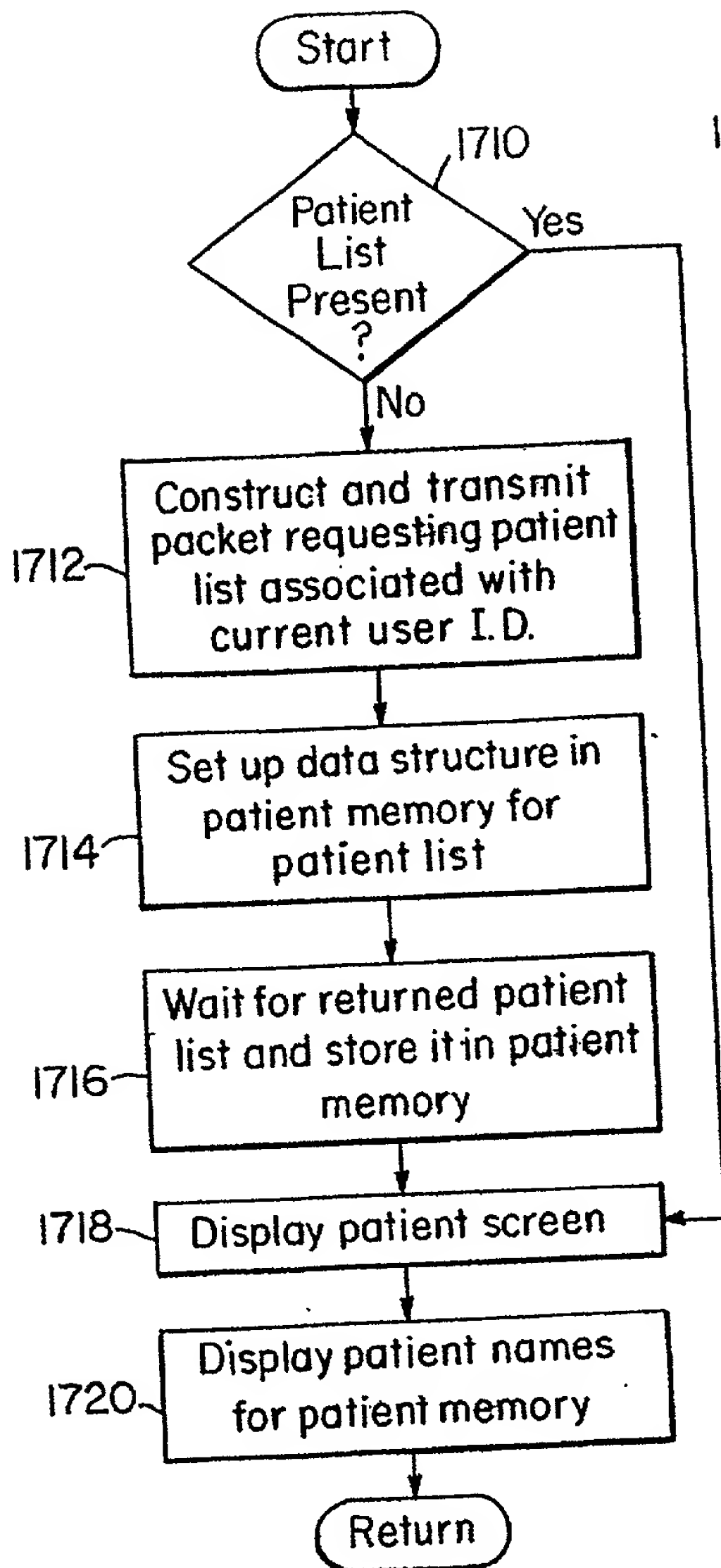


FIG. 6

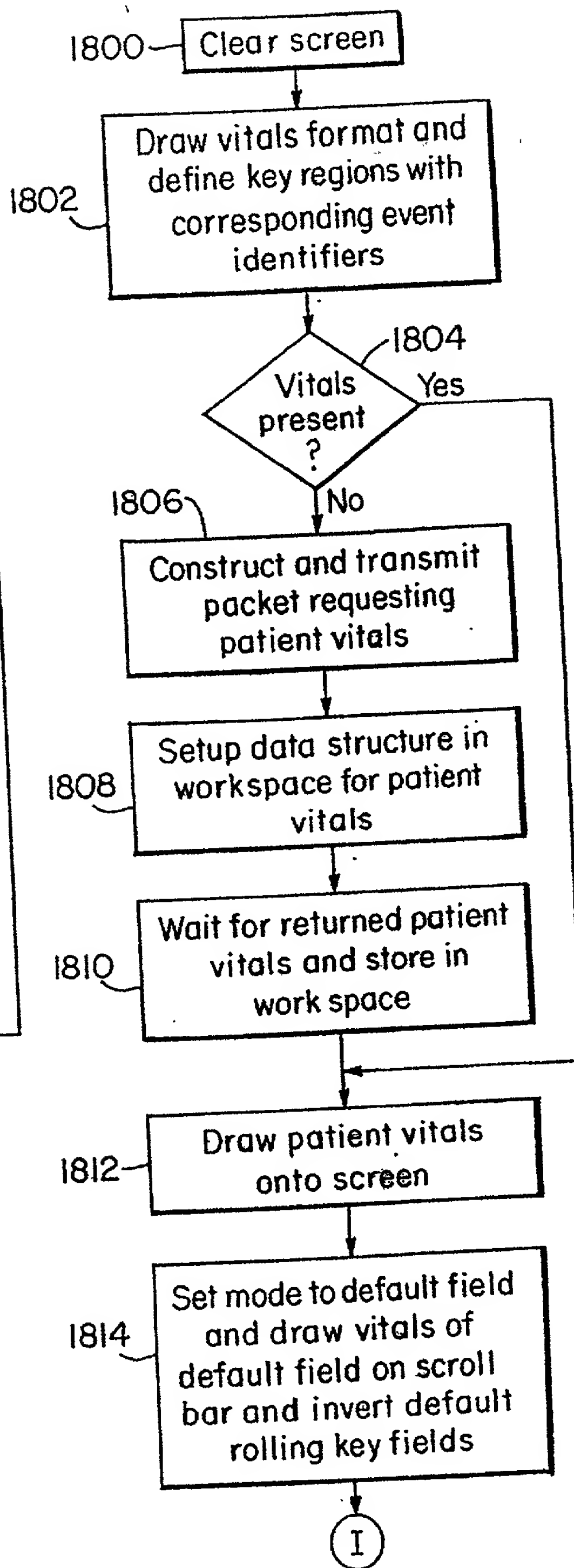
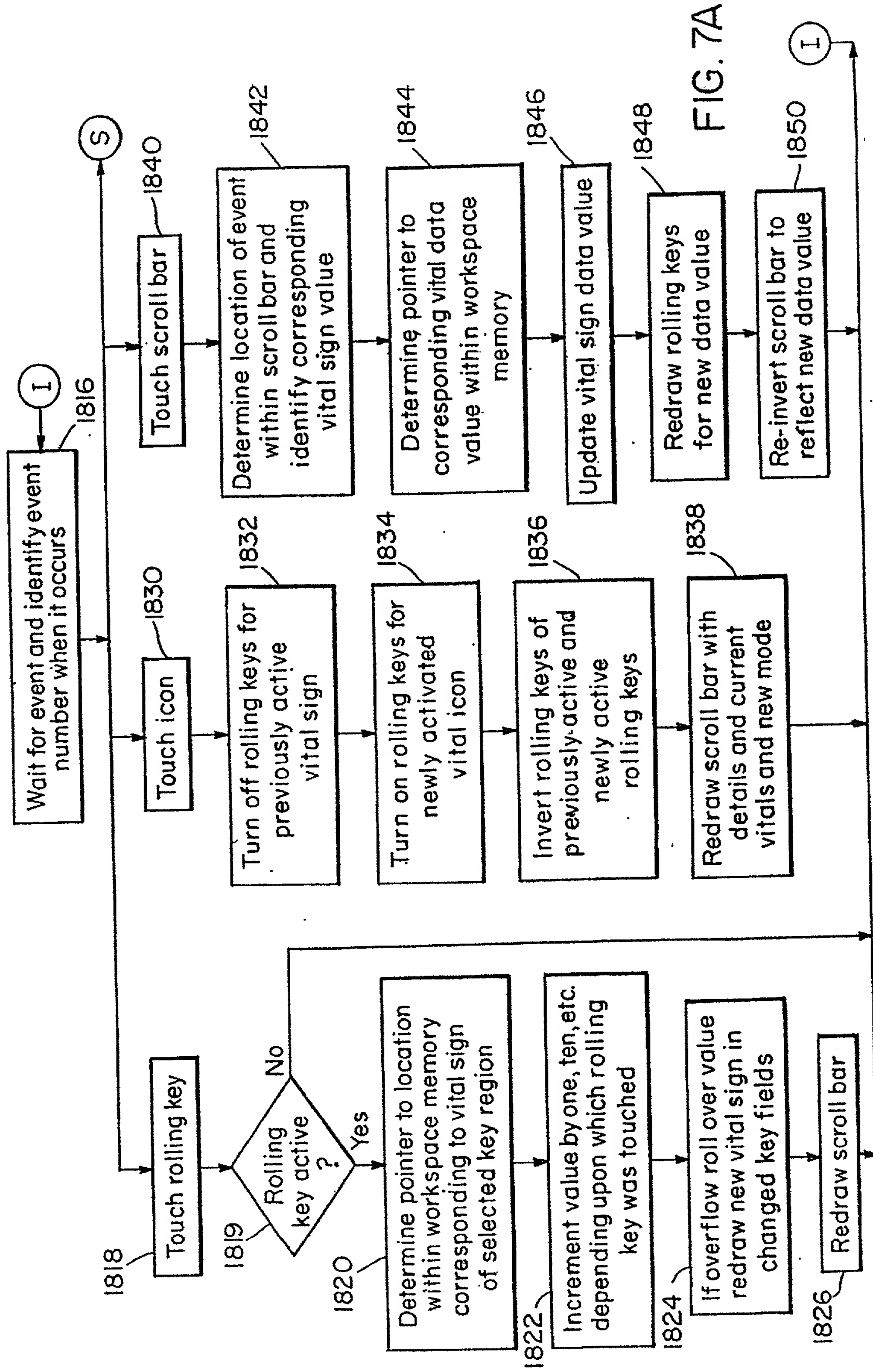


FIG. 8



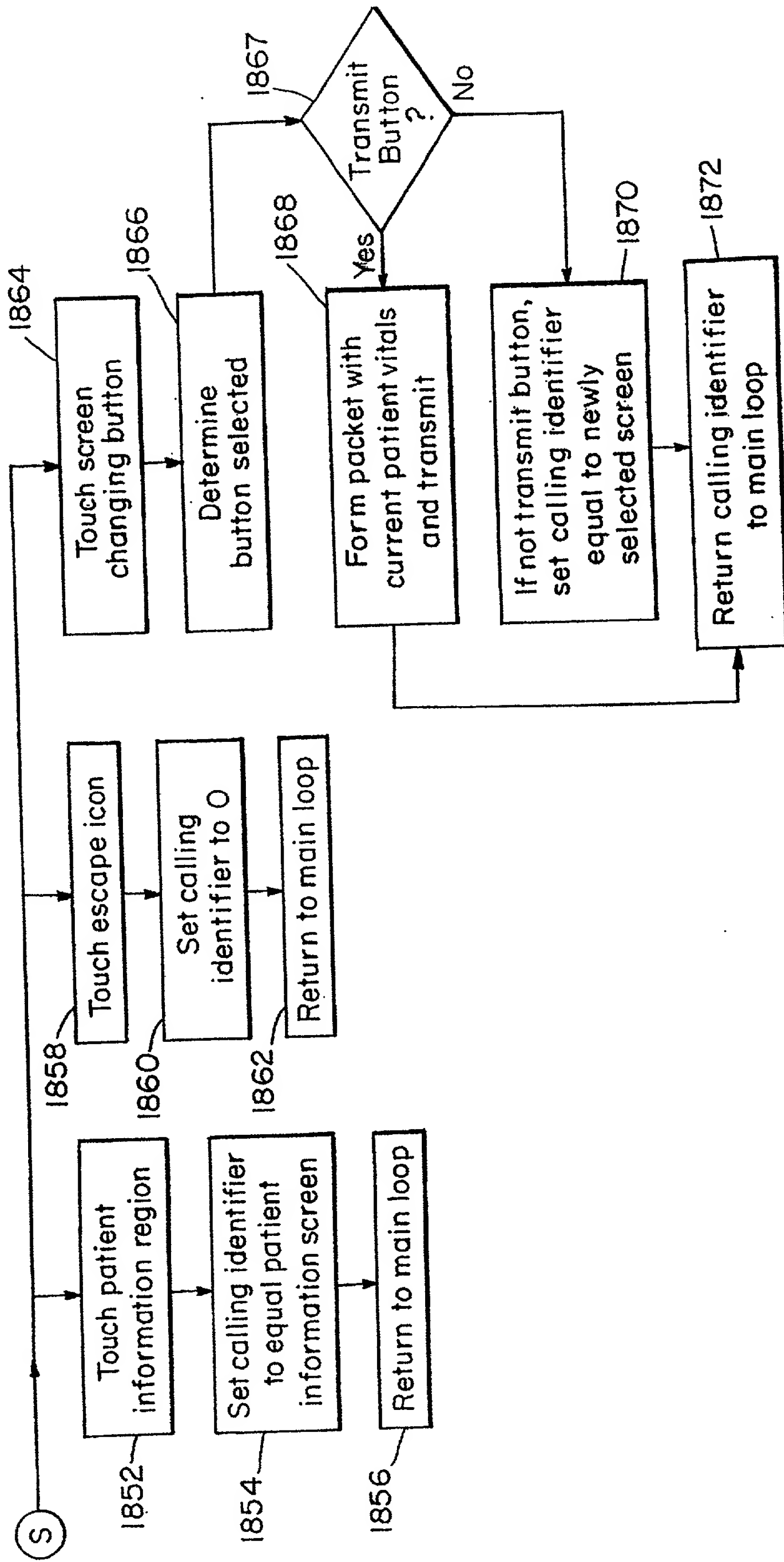


FIG. 7B

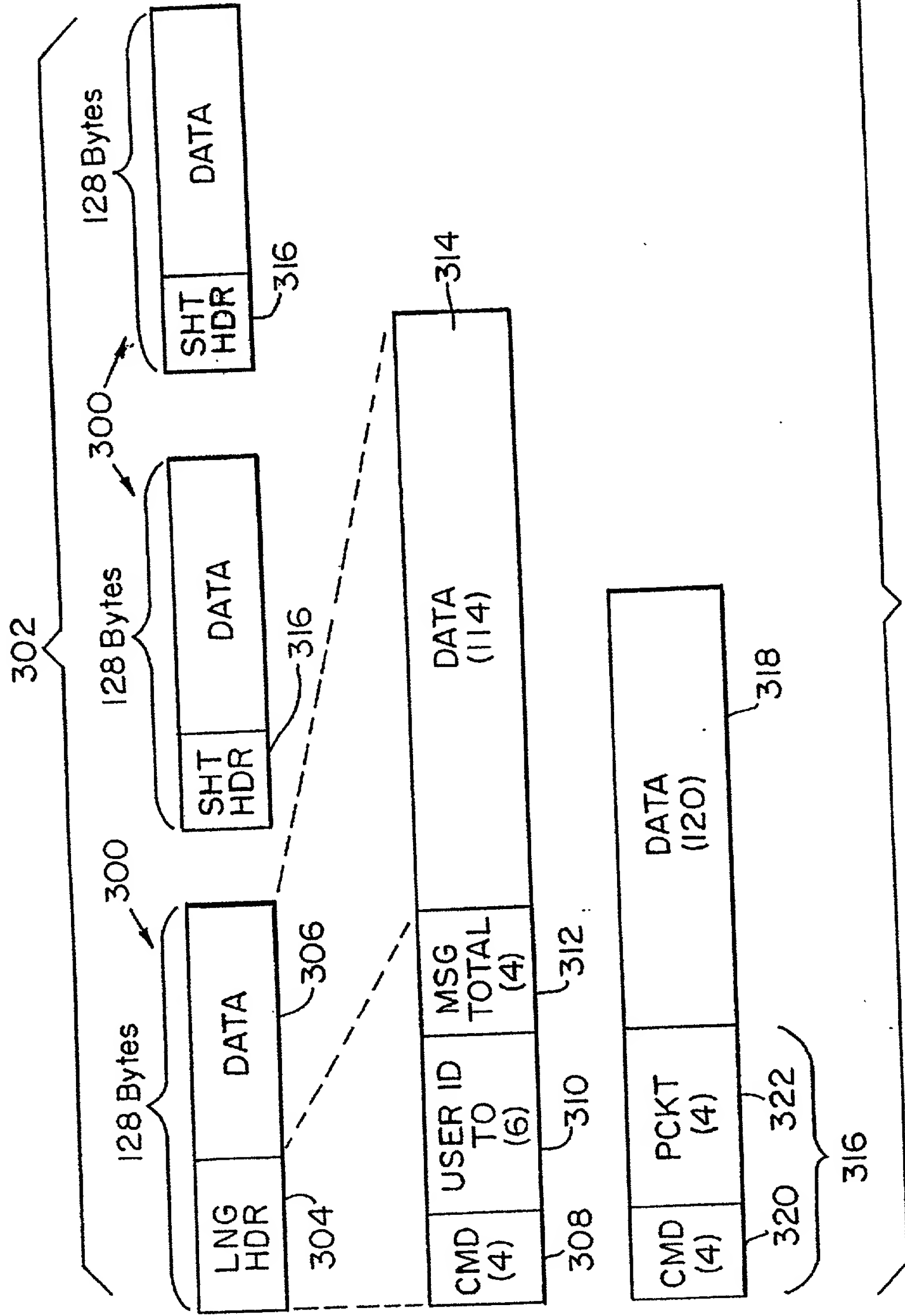


FIG. 9

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graph TD
    400[Read current data in temporary storage] --> 402[Determine length of message and ID of user signed in]
    402 --> 404[Construct partial long header with CMD, USERID_TO, MSG_TOTAL]
    404 --> 406[Clear packet #]
    406 --> 408[Write data to data field of packet]
    408 --> 410{Packet full?}
    410 -- No --> 414{More data to write?}
    410 -- Yes --> 412[Transmit and clean packet]
    414 -- Yes --> 408
    414 -- No --> 412
    412 --> 416{More data to write?}
    416 -- Yes --> 418[Increment packet number]
    416 -- No --> 422([Exit])
    418 --> 420[Construct partial short header with CMD and packet number]
    420 --> 408

```

FIG. 10

720'

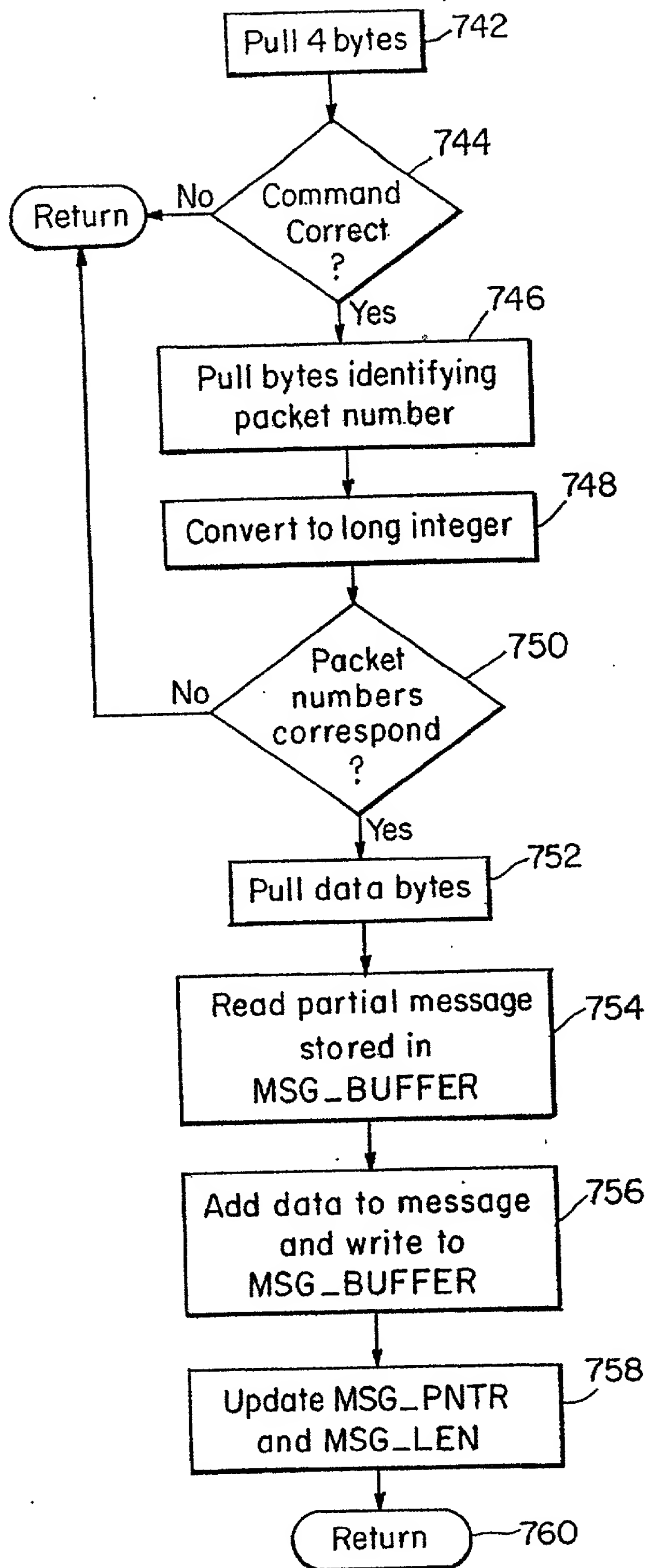


FIG. 12

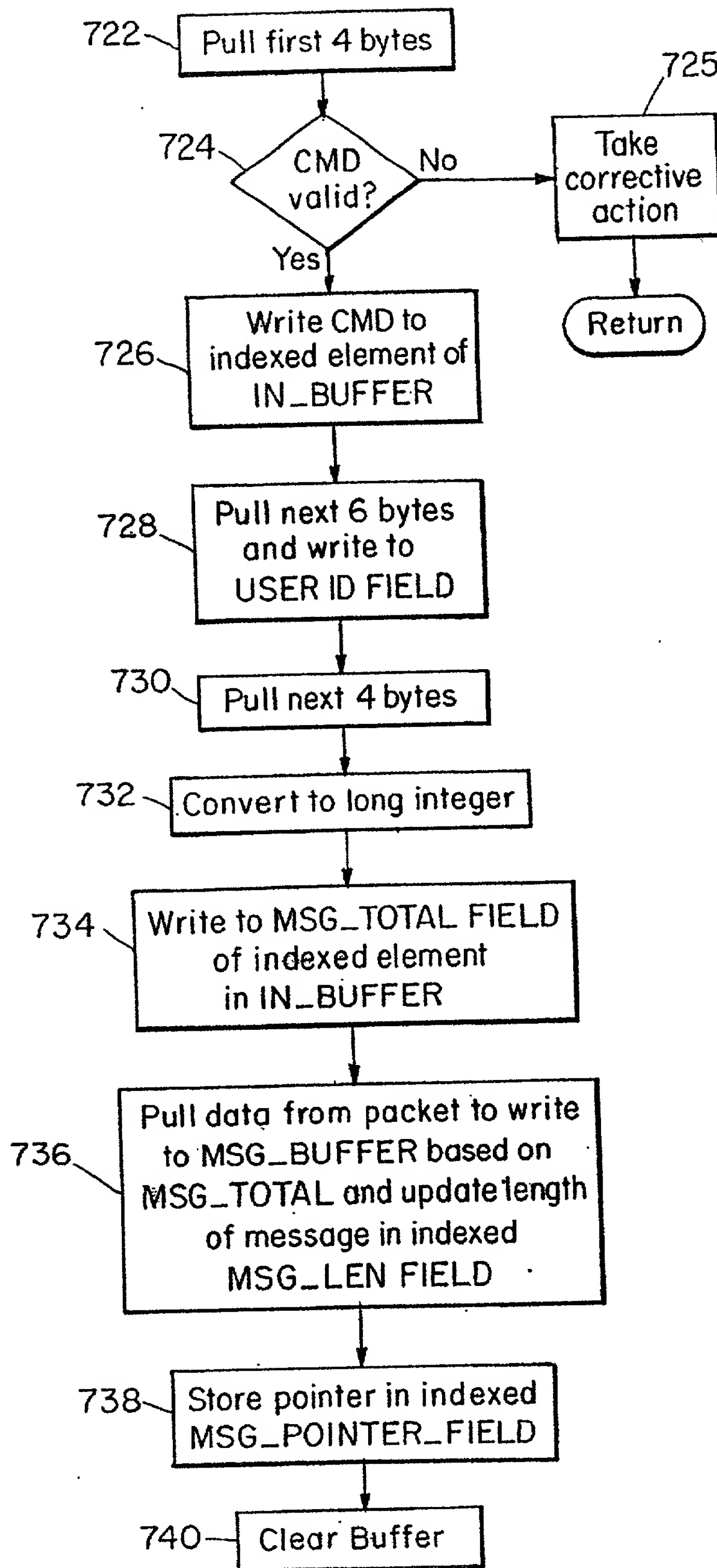


FIG. 13

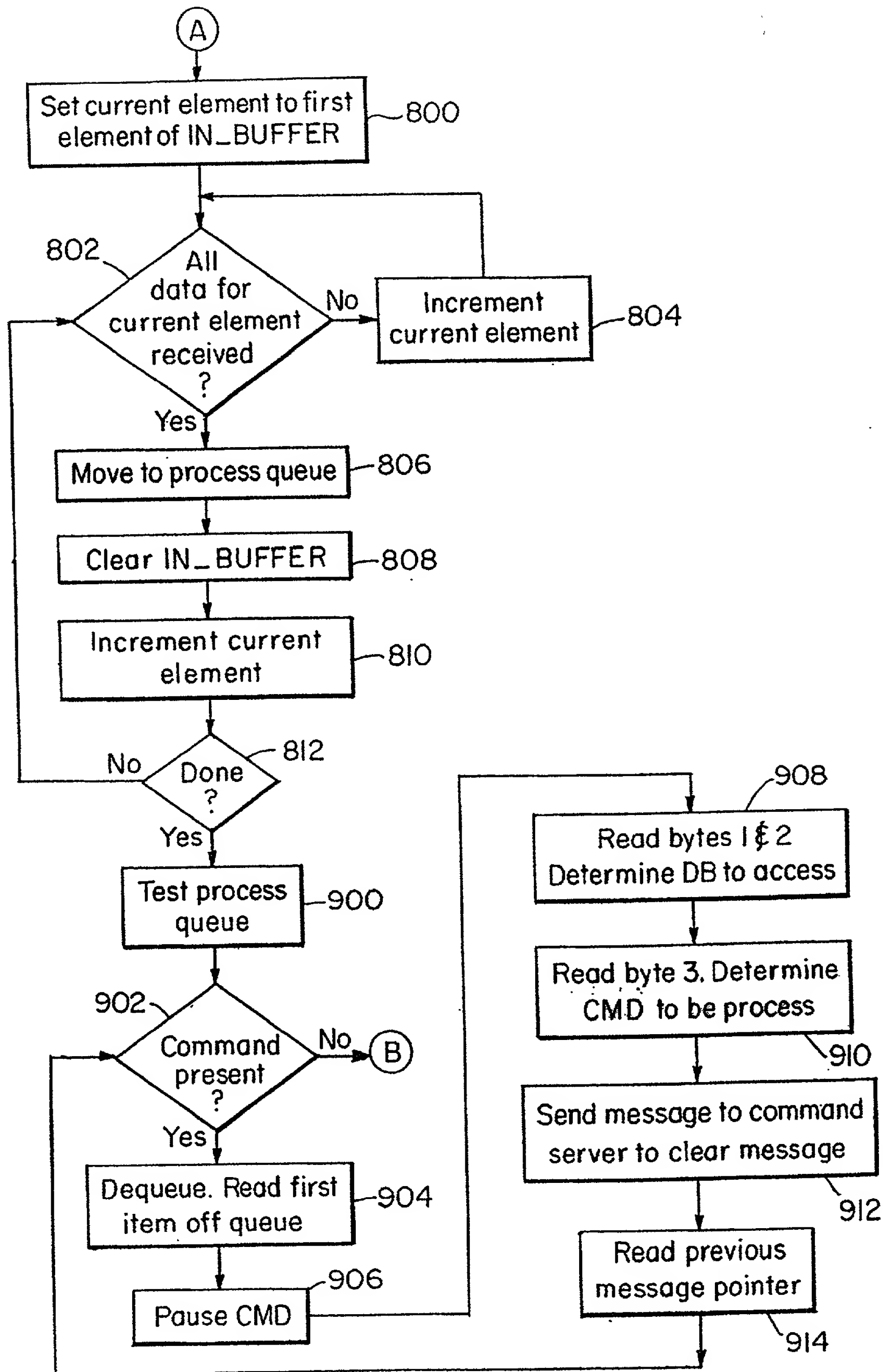


FIG. 14

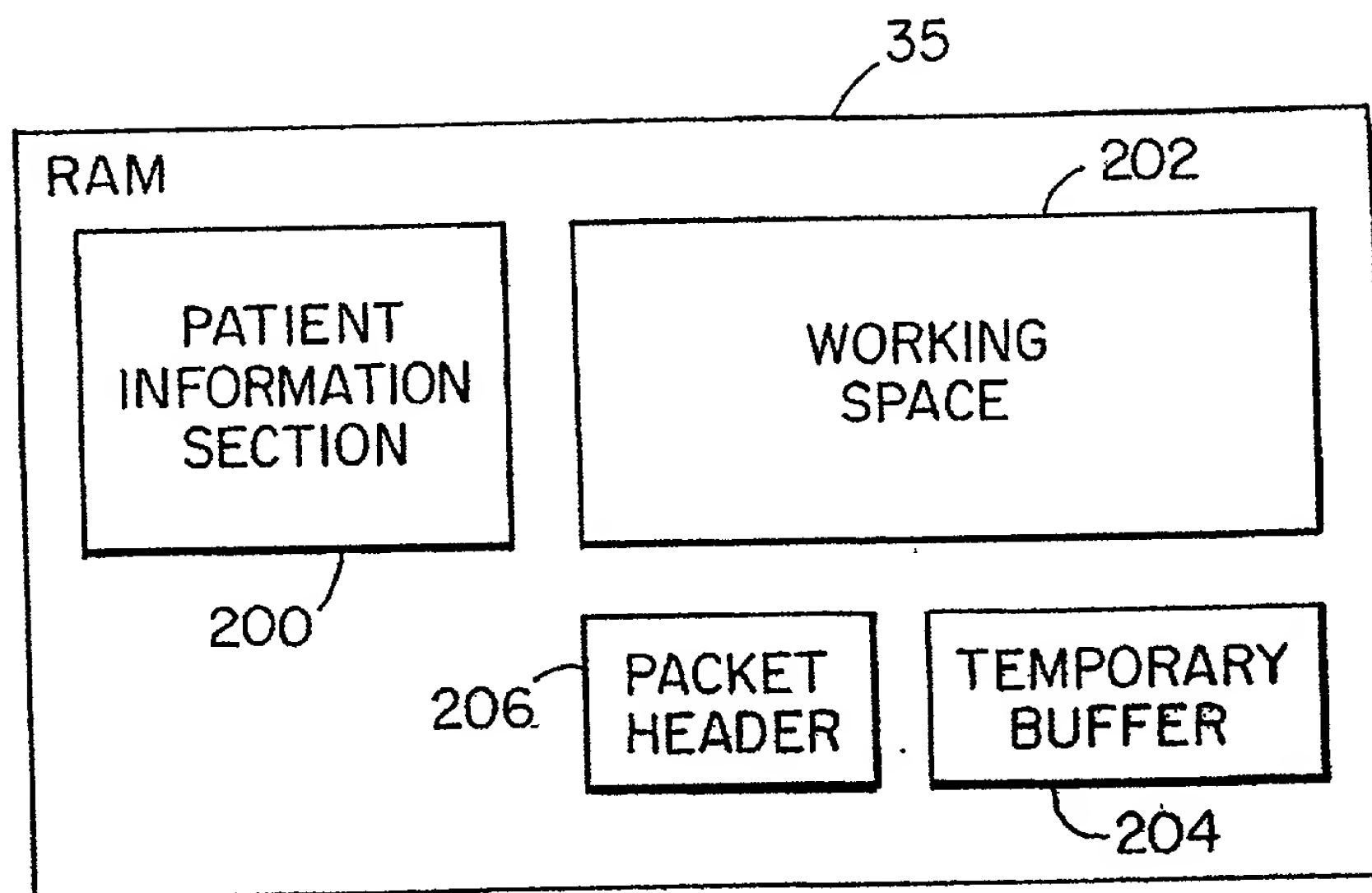


FIG. 15

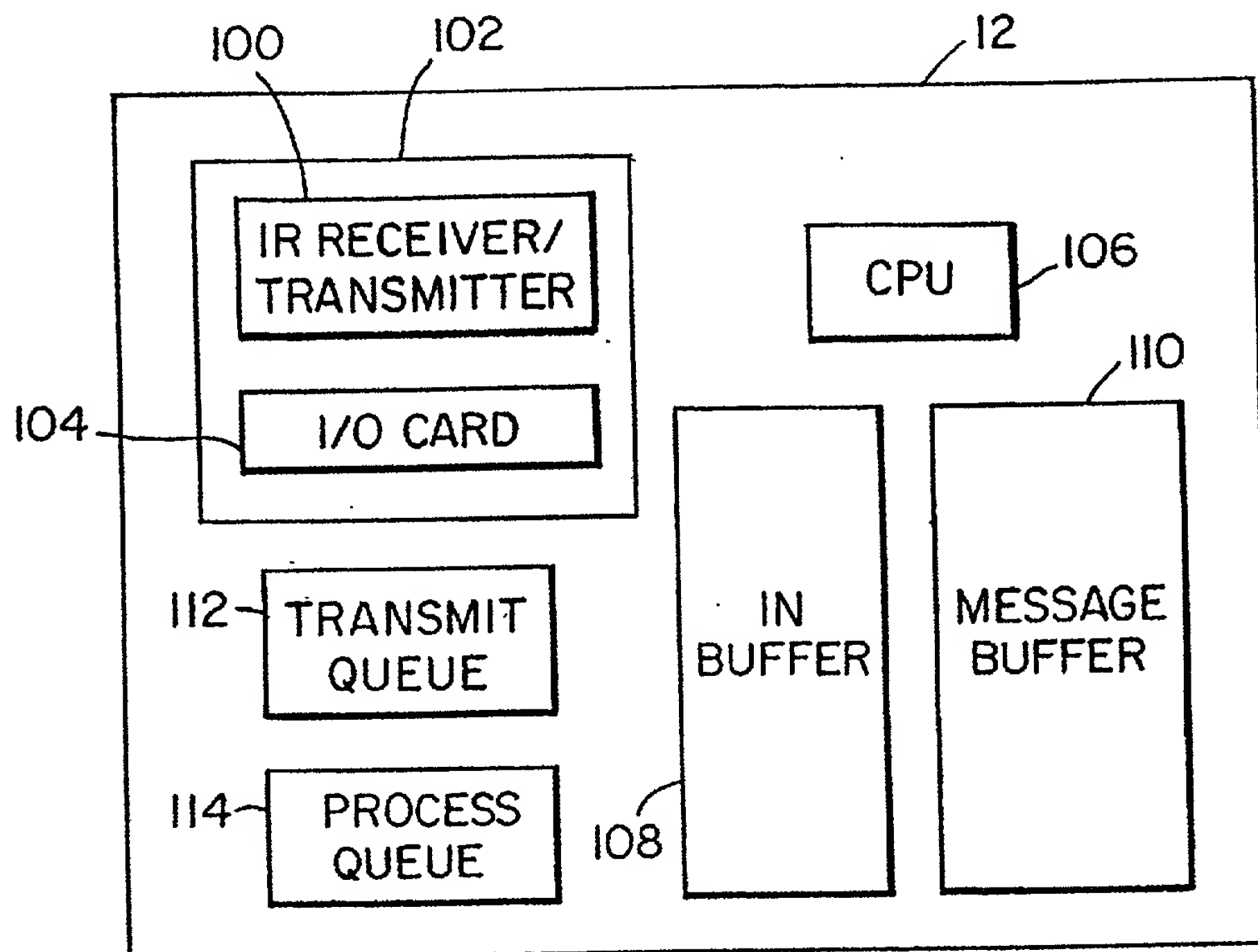


FIG. 16

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graph TD
    B((B)) --> 1000[Test transmit queue]
    1000 --> 1002{Transmit queue contain data?}
    1002 -- Yes --> 1004[Dequeue MSG_LIST from transmit queue by taking message off transmit queue]
    1004 --> 1008[Read command in message]
    1008 --> 1009[Construct long header]
    1009 --> 1010[Write data to packet]
    1010 --> 1012[Transmit]
    1012 --> 1014{Data remains?}
    1014 -- No --> 1020[Test communication server interface for input message]
    1014 -- Yes --> 1015[Construct short header]
    1015 --> 1016[Write data to packet]
    1016 --> 1018[Transmit]
    1018 --> 1014

    1020 --> 1100{Message exists?}
    1100 -- No --> 1116([Return])
    1100 -- Yes --> 1104[Read message]
    1104 --> 1106[Decode command]
    1106 --> 1008{Message to be processed by C/S?}
    1008 -- Yes --> 1112[Place command on process queue and store MSG]
    1112 --> 1110{Message to be transmitted by C/S?}
    1110 -- Yes --> 1114[Place command on transmit queue and store MSG]
    1114 --> 1010
    1110 -- No --> 1020
    1008 -- No --> 1110
  
```

FIG. 17

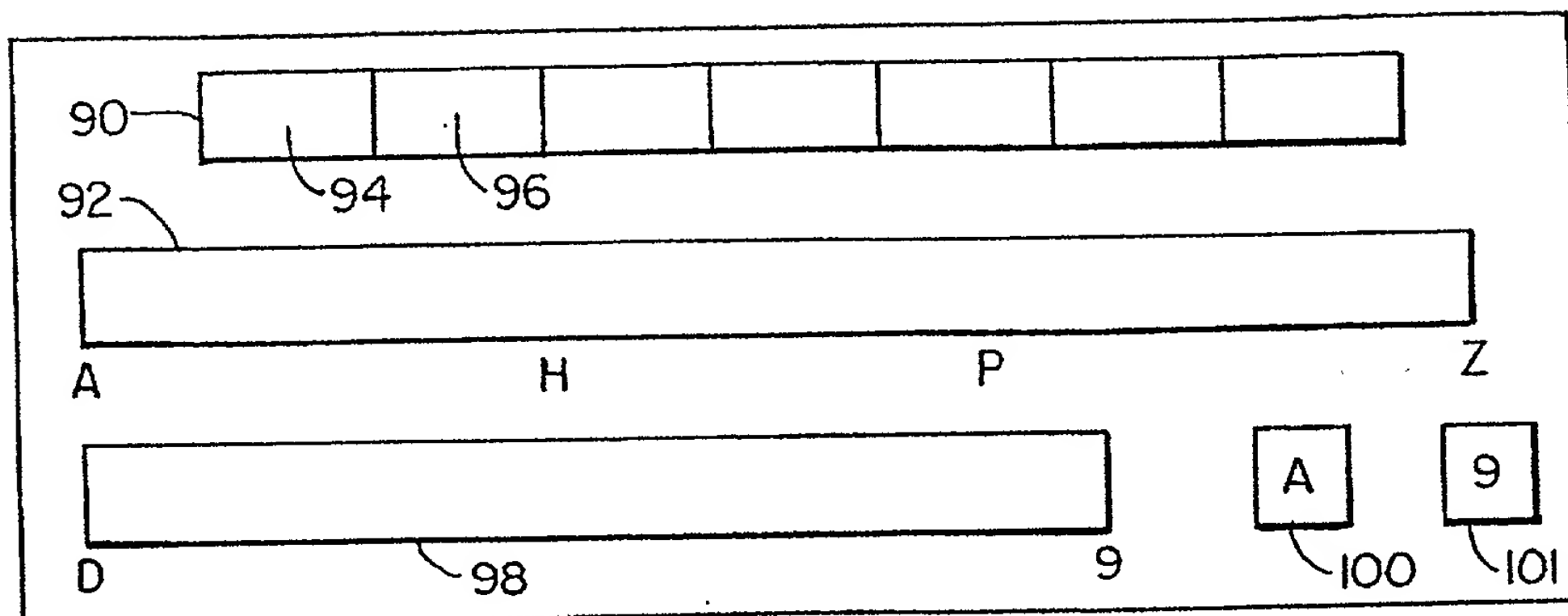


FIG. 18

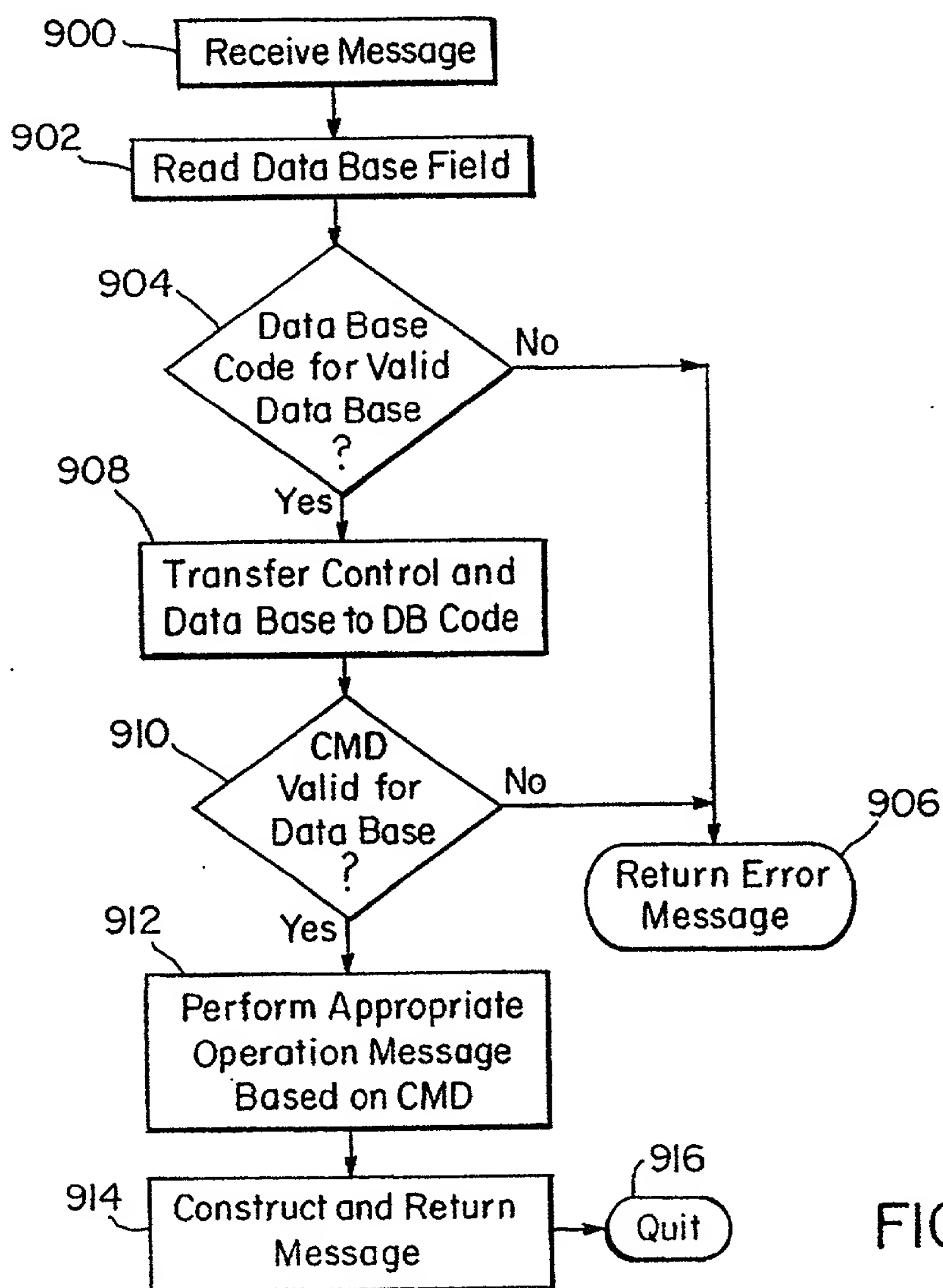


FIG. 19